

## M 5.4, Vanuatu

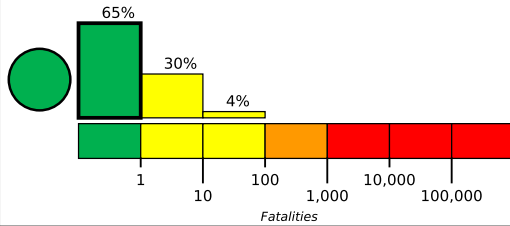
Origin Time: 2022-01-20 10:58:09 UTC (Thu 21:58:09 local)  
Location: 14.9887° S 167.9480° E Depth: 10.0 km

Created: 3 weeks, 4 days after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

### Estimated Economic Losses

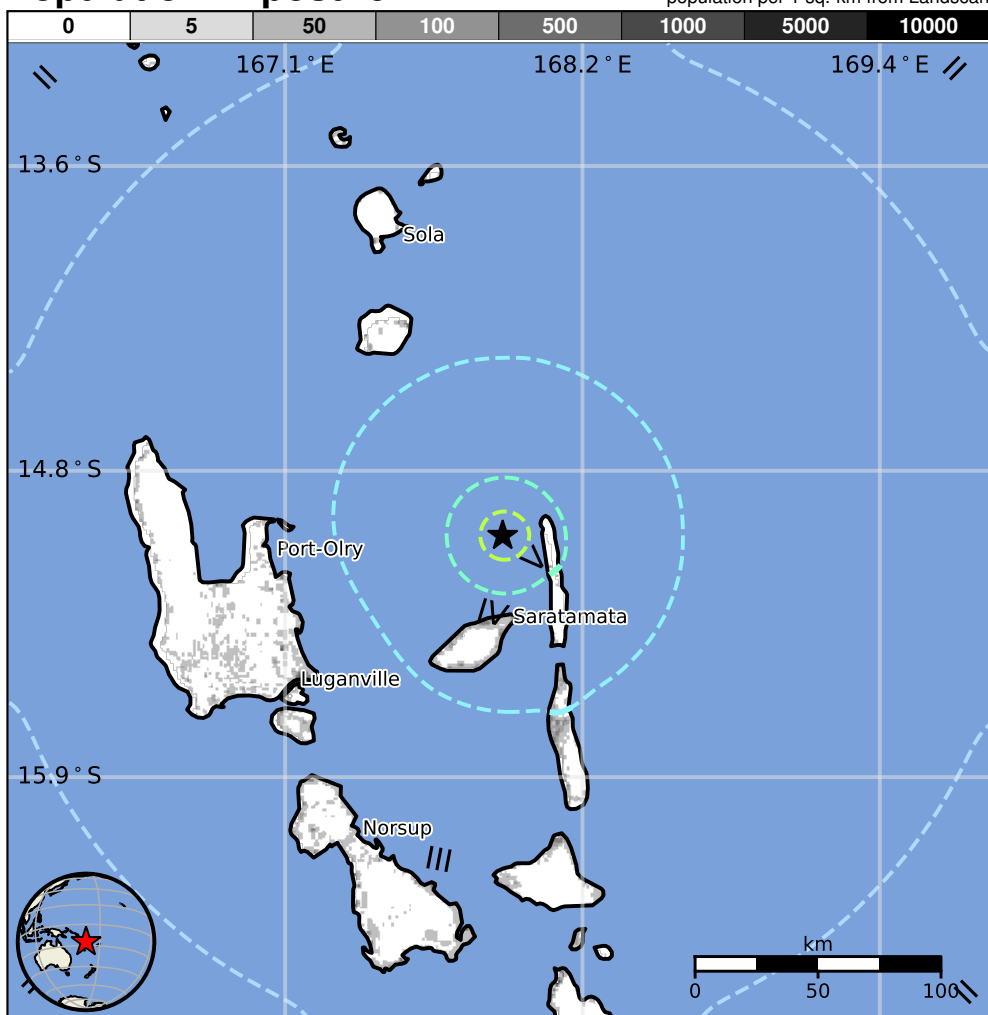


### Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | —*                    | 143k   | 23k   | 2k       | 0        | 0           | 0          | 0          | 0        |
|---|-----------------------|--------|-------|----------|----------|-------------|------------|------------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY   | I                     | II-III | IV    | V        | VI       | VII         | VIII       | IX         | X+       |
| PERCEIVED SHAKING                       | Not felt              | Weak   | Light | Moderate | Strong   | Very Strong | Severe     | Violent    | Extreme  |
| POTENTIAL DAMAGE                        | Resistant Structures  | None   | None  | None     | V. Light | Light       | Moderate   | Mod./Heavy | Heavy    |
|   | Vulnerable Structures | None   | None  | None     | Light    | Moderate    | Mod./Heavy | Heavy      | V. Heavy |

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unknown/miscellaneous types and wood construction.

### Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 2002-11-27 | 59         | 5.8  | V(19k)     | 0              |
| 1999-08-22 | 124        | 6.5  | IX(2k)     | —              |
| 2002-01-02 | 289        | 7.2  | VIII(28k)  | 0              |

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

| MMI | City       | Population |
|-----|------------|------------|
| IV  | Saratamata | <1k        |
| III | Port-Olry  | 2k         |
| III | Sola       | 1k         |
| III | Luganville | 13k        |
| III | Norsup     | 3k         |
| III | Lakatoro   | 1k         |

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000gdi9#pager>

Event ID: us7000gdi9